

HUMAN NMDAR1 cDNAs

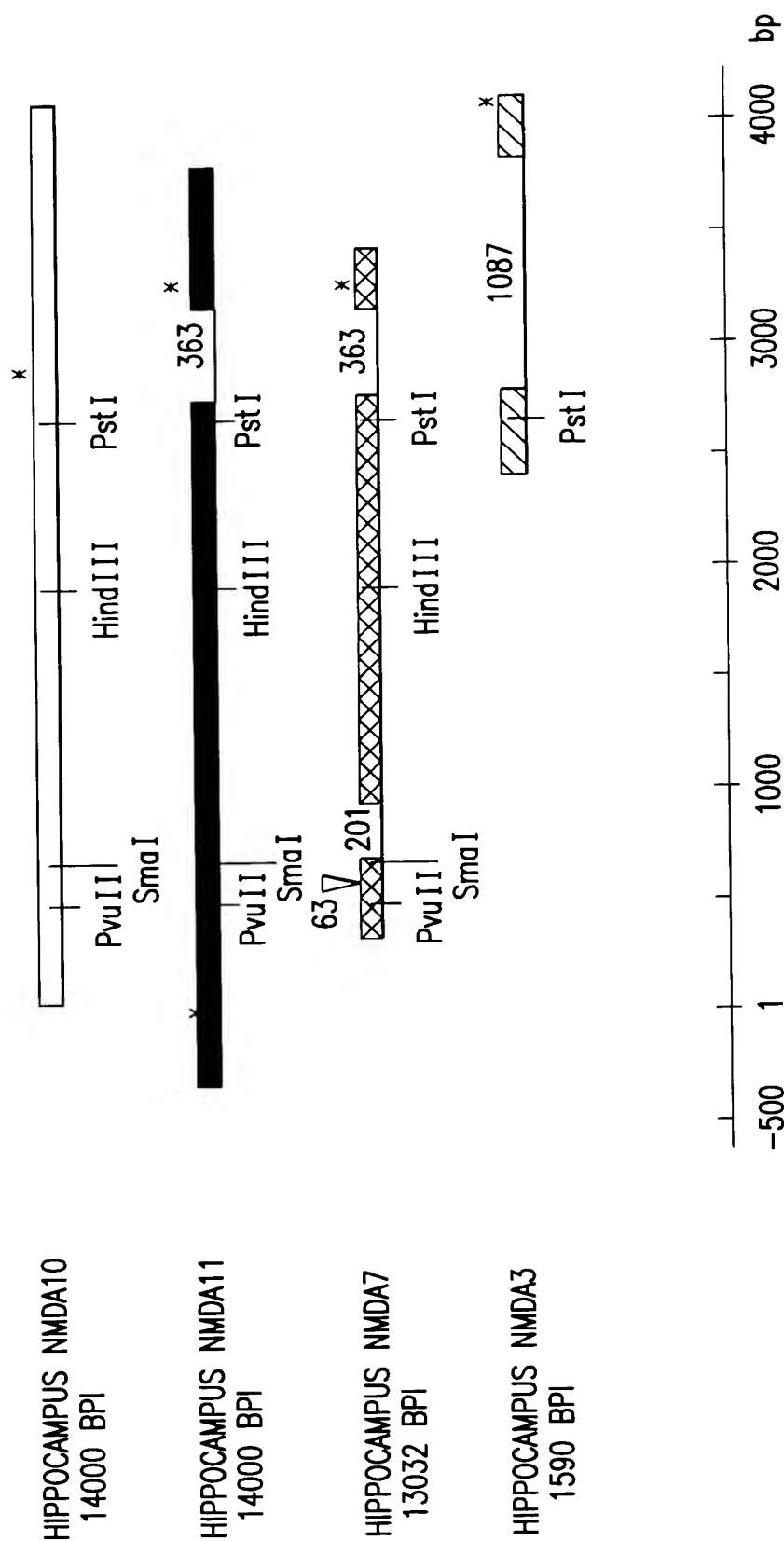


FIG.1

HUMAN NMDAR1A CONSTRUCTS

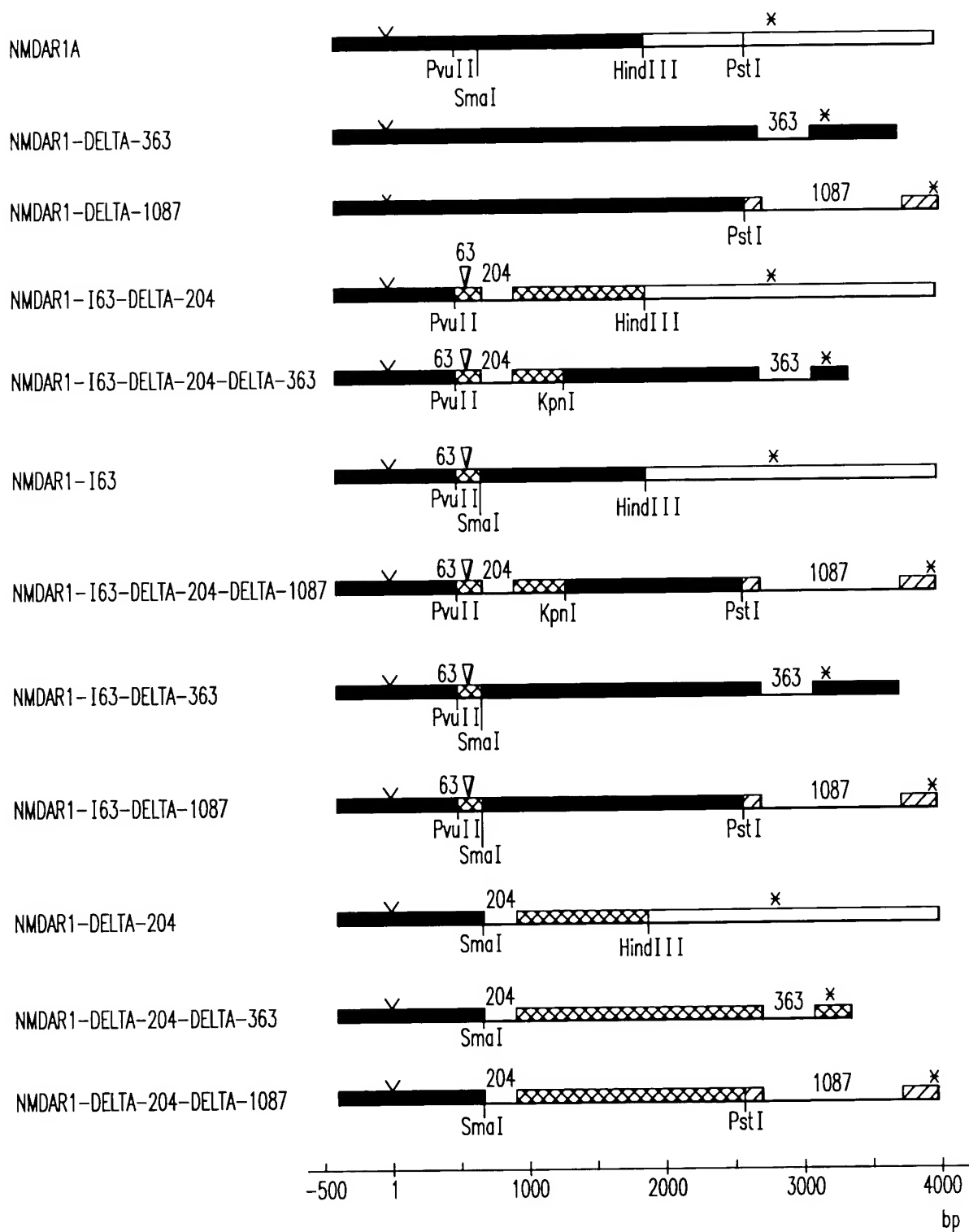


FIG.2

NUCLEOTIDE SEQUENCE OF THE HUMAN MDARIA RECEPTOR

1 ccagccgggc gttcggagct gtgcccgcc ccgttcagc acccgggaca ggcgcggccg cgtgggactg agcgcggagc ccccgcgac gcttcagccc
101 ccccttcctc ggcgcagtc ccgggacgc cgtccgggg ggcgcggccg gtcgcggccg ggcgcggcga ggcgcggccg gaagcccgcc
- START
201 gggggtgag ccgagggccc cgcgttcgag ccgcgcagag ccagcccgcc ggcgcggccg cATGAGCACC ATGGGCTGCG TGACGCTGCG CCTGCTGTTT
301 TCTGCTCCG TCGCCGCTGC CGGTGCGAC CCAAGATCG TCAACATTGG CGGGGTGCTG AGCAGCGGGA AGCAGCGACA GATGTTCCGC GAGGCGGTGA
401 ACCAGGCGAA CAAGCGGCAC GGCTCCTGGA AGATTGAGT CAATGCCACC TCGTCAAGC ACAAGCCCAA CCGCATCCCG ATGGCTCTGT CCGTGTGCGA
501 GGACCTCATC TCCAGCCAGG TCTAGCCCAT CCTAGTAGC CATCCACCTA CCGCCAAAGCA CCACTTCACT CCGACCCCTG TCTCTACAC AGCGGCTTTC
601 TACCGCATAC CCGTGTGCG GCTGACCCACC CGCATGTCCA TCTACTGGA CAAGAGCATC CACCTGAGCT TCGTGGCGAC CGTGGCGCCC TACTCCACCC
Pvu II
701 AGTCCAGCGT GTGGTTTGAG ATGATCCGTG TCTACAGCTG GAACACATC ATCTGTGCTG TCAGCGAGCA CCAAGAGGCG CGGGCGGCTC AGAAAGCCCT
-63 bp INSERT
801 GGAGAGCGTG CTGGAGGAGC GTGAGTCCAA GGCAGAGAG GTGCTGCAGT TTGACCCAGG GACCAAGAAC GTACGGGCCC TGCTGATGGA GCGGAAGAG
Sma I
901 CTGGAGGCCC GGGTCATCAT CCTTCTGCCC AGCGAGGAGC ATGCTGCCAC TGTATACCGC GCAGCGCGGA TGCTGAACAT GACGCGGCTCC GGGTACGTGT
BgIII
1001 GCGTGTGCGG CGAGCGCGAG ATCTCGGGGA AGCGCTGCG CTAGCCCCCA GACGCGATCC TCGGGCTGCA GCTCATCAAC GGCAAGAAGC AGTCGSCCCA
1101 CATCAGCGAC GCGTGGGCG TGGTGGCCA GCGGTGCCAC GAGCTCTCG AGAAGGAGAA CATACCGGAC CCGCGCGGGG GCTGGTGGG CAACACCAAC
1201 ATCTGGAAGA CCGGGCGGCT CTTCAGAGA GTGCTGATGT CTTCAGTA TCGGATGGG GTGACTGGTC GCGTGGAGTT CAATGAGGAT GGGGACCGGA
1301 AGTTGCCCAA CTACAGCATC ATGAACCTGC AGAAGCGCAA GCTGGTGCAA GTGGCATCT ACAATGGCAC CCAGTTCATC CCTAATGACA GGAAGATCAT
Kpn I
1401 CTGGCCAGGC GGAGAGACAG AGAGCCCTCG AGGGTACCAG ATGTCCACCA GACTGAAGAT TGTACGATC CACGAGGAGC CCTTGTGTA CGTCAAGCCC
1501 ACCGTGAGTG ATGGACATG CAAGGAGGAG TTCAGAGTCA ACCGCGACCC AGTCAAGAG GTGATCTGCA CCGGGCCCCAA CGACACGTCG CCGGGCAGCC
1601 CCGCCACAC GGTGCTCAG TGTGCTAGC GCTTTGTCAT CGACCTGCTC ATCAAGCTGG CAGGACCAT GAACTTACCC TACGAGGTGC ACCTGGTGGC
1701 AGATGGCAAG TTGGGCACAC AGGAGCGGCT GAACAGAGC AACAGAAGG AGTGAATGG GATGATGGC GAGCTGCTCA CCGGGCAGGC AGACATGATC
1801 GTGGGCGCG TAACCATAAA CAACGAGCGC GCGCAGTACA TCGAGTTTC CAAGCCCTC AGTACCAGG GCGTGAATAT TCTGGTCAAG AAGGAGATTG
1901 CCGCGAGGAC GCTGGACTCG TTGATGAGC CGTTCAGAG CACACTGTGG GTGCTGGTG GCGTGTGGT GCAGTGGTG GCGTGTGTC TGTACCTGCT
2001 GGACGCGCTC AGCCCTTCG GCGGTTCAA GGTGAACAGC GAGGAGGAGG AGGAGGAGC ACTGACCCCTG TCCTGGGCA TGTGCTTCTC CTGGGGGCTC

204 bp
DELETION

FIG.3A

HindIII

2101 CTGCTCAACT CCGGCATGG GGAAGCGCC CCGAGAAGCT TCTACGCGG CATCTGCGG ATGGTGTGG CCGGCTTTGC CATGATCATC GTGGCTCCT
2201 ACACCGCCAA CCTGGCGGC TTCTGGTGC TGGACCGGC GAGGAGCGC ATCAGCGCA TCAAGACCC TCGGCTGAG AACCCCTGG ACAAGTTTAT
2301 CTACGCCACG GTGAGGAGA GCTCGTGA TATCTACTT CCGCGCCAGG TGGAGCTGAG CACCATGTAC CGGCATATGG AGAAGCACAA CTACGAGAGT
2401 GCGCGGAGG CCATCCAGG CGTGAGAGC AACAGCTGC ATGCTTTCA TCGGACTCG CGGTGCTGG AGTTGAGGC CTGCGAGAAG TGGACCTTGG
2501 TGACGACTGG AGAGCTGTT TTCCGCTGG CTTTCGGCAT AGGATGCGC AAGACAGCC CTTGGAAGCA GAACGTCTCC CTGTCCATCC TCAAGTCCCA
2601 CGAGAAATGG TTCATGGAAG ACCTGGACAA GACGTGGGT CCGTATCAGG AATGTGACTC GCGCAGCAAC GCGCCTGCGA CCTTACTTT TGAGAACATG
2701 GCGGGGTCT TCATGCTGT AGCTGGGCG ATGTGGCGG GATCTTCTT GATTTTCATC GAGATTGCTT ACAAGCGCA CAAGGATGCT CCGCGGAAGC

Pst I₁

2801 AGATGAGCT GGCCTTTGCC GCGGTTAAG TGTGGCGAA GAACCTGCAG GATAGAAAGA GTGGTAGGC AGAGCCTGAC CCTAAAAGA AAGCCACATT
2901 TAGGGCTATC ACCTCCACC TGGCTTCCAG CTTCAAGAG CTTAGTCTT CCAAGACAC GAGCACCGCG GGTTGACGG GTGCTTTGCA AAACCAAAA
3001 GACACAGTGC TCCGCGCAGG CCTATTGAG AGGAGGAGG GCGAGCTGCA GTGTGTTCC GGTATAGG AGAGTGAga ctccecgccc gccctcctct
3101 gcccctccc ccgcagacag acagacagac ggaaggaga gggcccgcc cccgcagag ccccgagga ccccgagga ccccccagc
3201 ctccecgag ctgcgctgc ccgcgcgcg gttggcgcg tggecggtcc acccggtccc ggccecgcc gtgcccag cgtgggcta acggcgccct
3301 tgctgtgta tttctattt gcagcaglac cctcccactg atatacggg cccgctcac cctcagatc cctcggtcag caccgtgggtg tgdggccccc
3401 ggaggcgccc acctgcccag ttageccgc caagacact gatgggtcct gctgctcgg agggcctgag ggaagccccc cggcccaga gactgccac
3501 cctgggcctc cgtccgctcc gccgcgccac cccgtgctt ggcgggcagc cctgtgga ccaagtgag gaccggagcg gctgagagcg gggcagagct
3601 gactcggtg ggcagggcg cagggcgtc cgcagagagc aggccttgg ggtctctgag cagtggggag cgggggctaa ctgcccacag gcggaggggc
3701 ttgagacaga gacggaccc ccatcttcc cgcagacca gctgagcca cagtggggc cagtgccca gctggctggg tgccectcc tcgggcgct
3801 gcgtcctct gcagcctgag ctccacctc cctcttctt gcggacccg ccccaacca cccgcttgc ccttgagc caccgcgcg gactggcgt
3901 gccctcccc aeggcgtcc ctgactccc agctggcgc gctccgccc gctcgggccc gctcctcca gaatcgagag ggtgagccc ctctctcct
4001 cgtccggtc gcagcacaga agggggcct cccggggctc cccggagct ggcctgggac tgtcttaac cctgcccgc acctgggca cgggagagcg
4101 ccaaccgccc gcccgcgccc tgcgtacgg gcccgcacc ttgtacaga cagcactcc cagggccca ggcgtgctt tccccgagc
4201 cagcgcgct ctgcccctcc gtcccaggg tgcaggcgcg caccgccc ccccccctc ccggtgtatg cagtggtgat gactaagga atgtcacg

363 bp
DELETION

1087 bp
DELETION

FIG.3B

CEREBELLUM NMDA26
13000 BPI

CEREBELLUM NMDA27
14350 BPI

CEREBELLUM NMDA22
14000 BPI

CEREBELLUM NMDA24
13500 BPI

CEREBELLUM NMDA21
12000 BPI

HUMAN NMDAR2C cDNAS

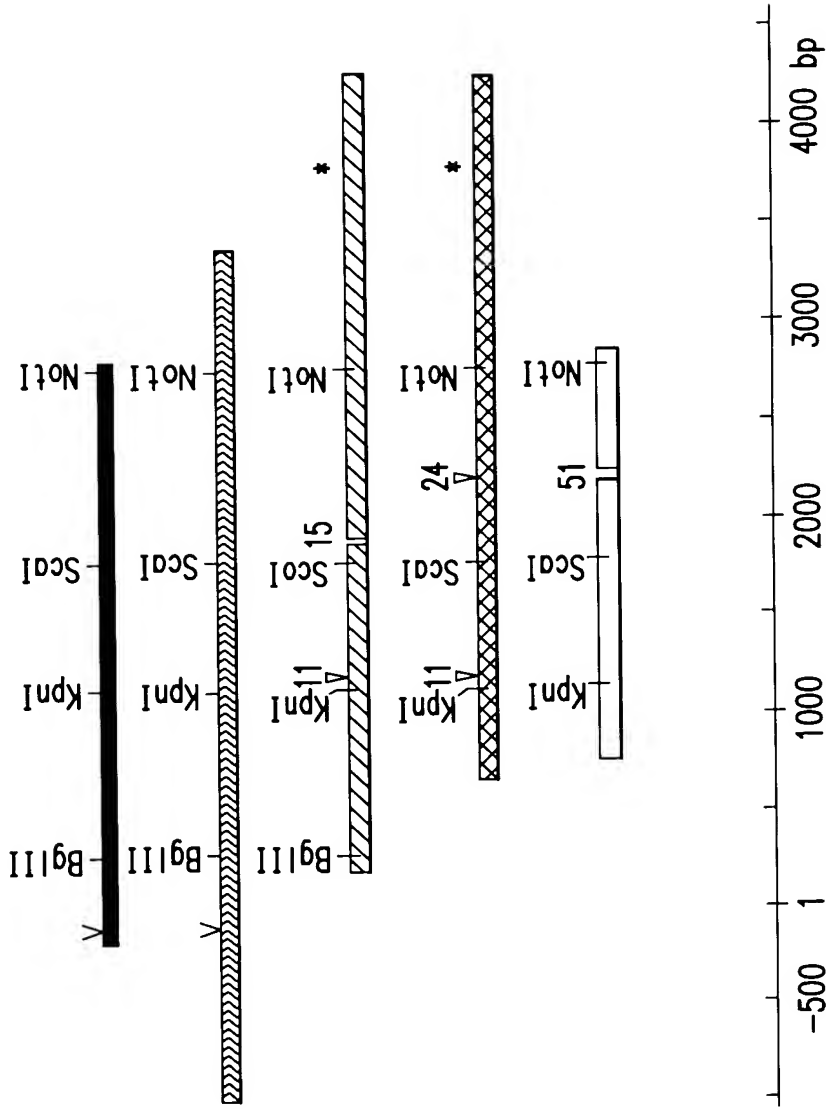


FIG.4

CONSTRUCTION OF THE FULL-LENGTH HUMAN NMDAR2C cDNAs

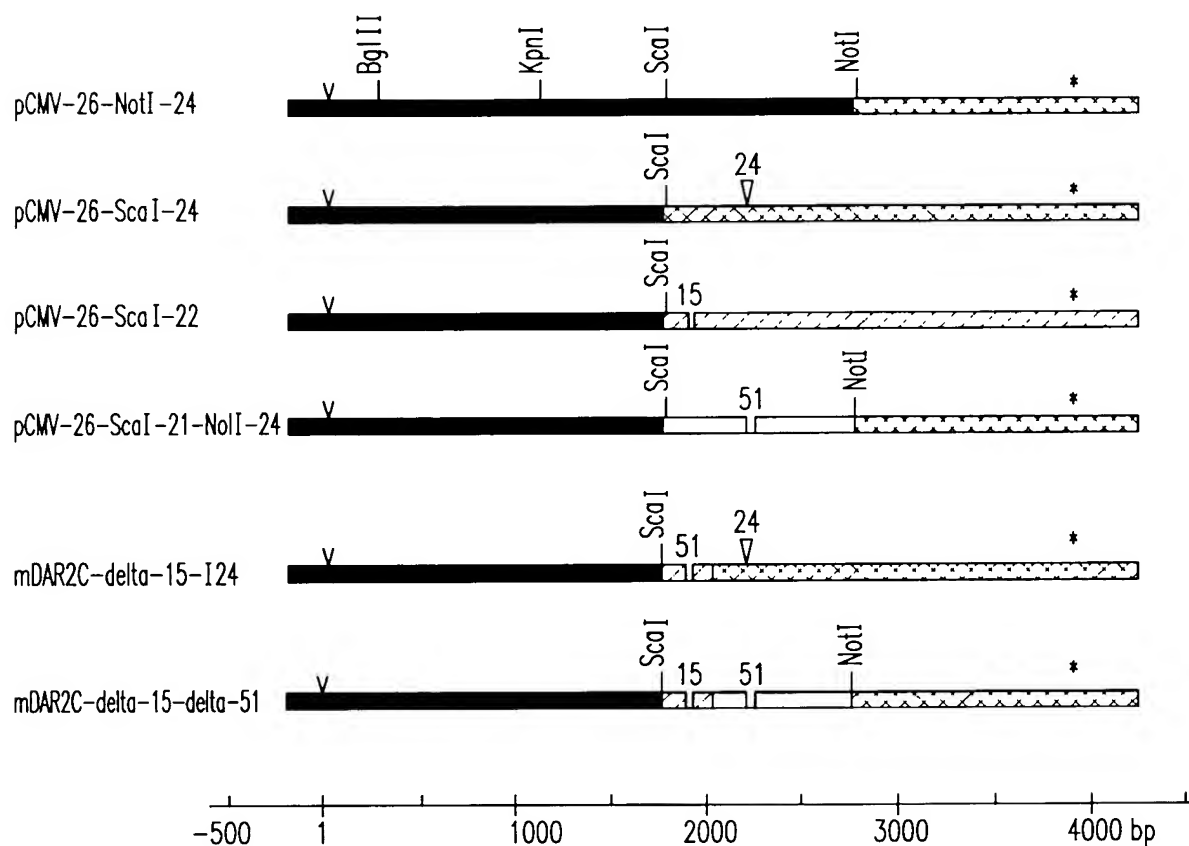


FIG.5

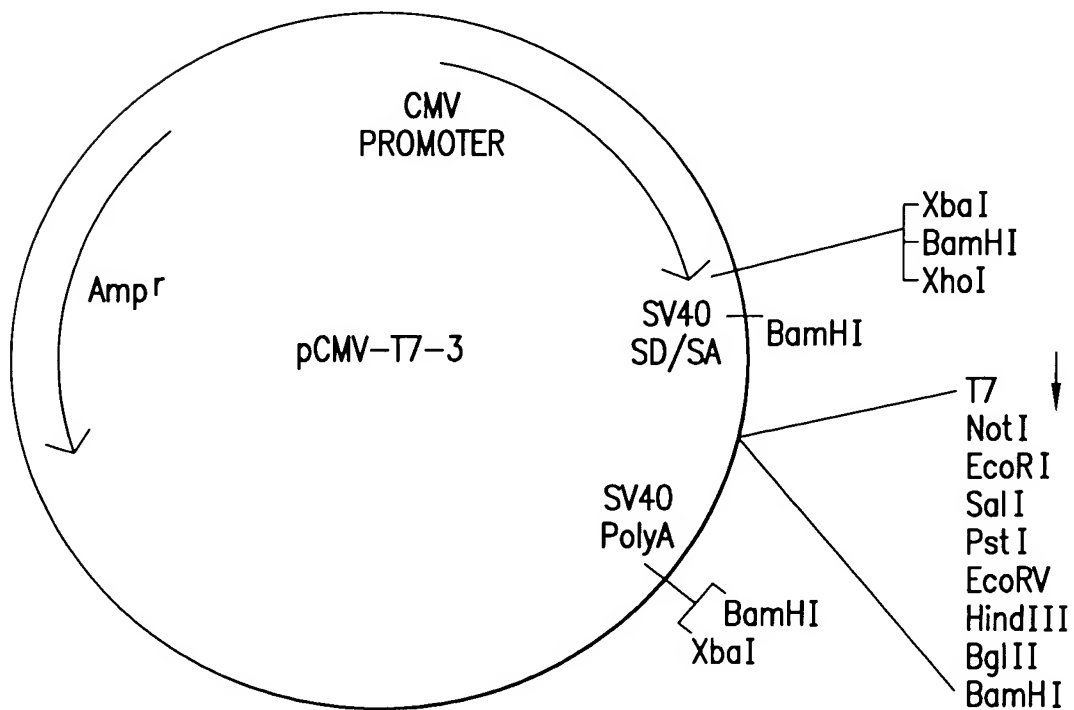
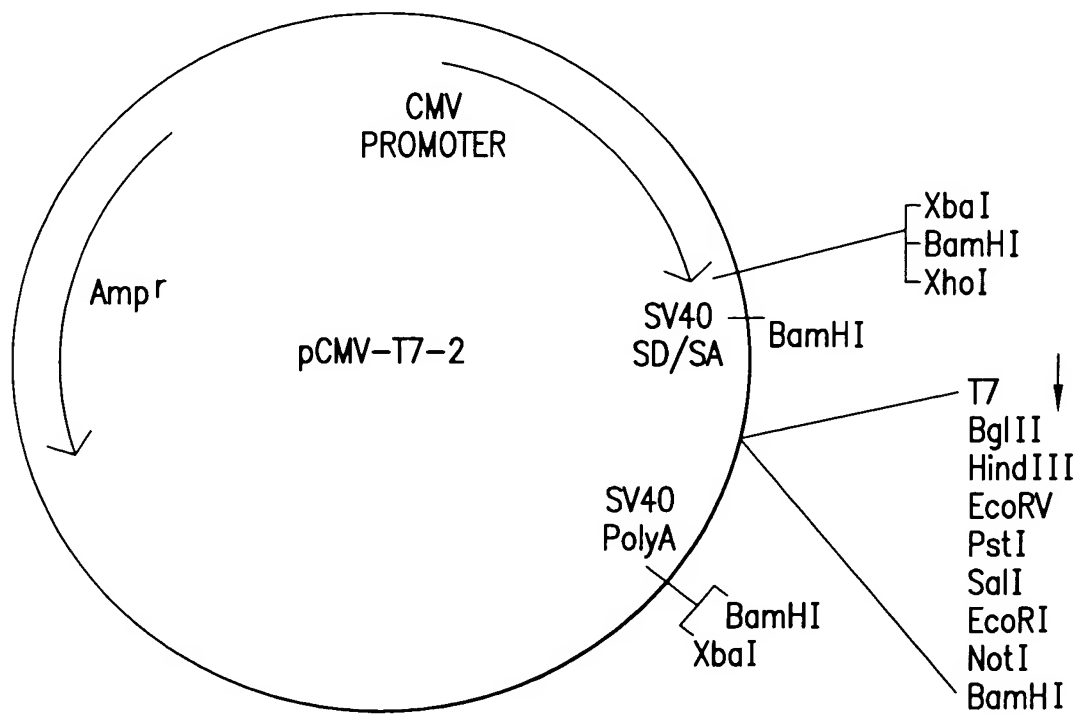


FIG.6